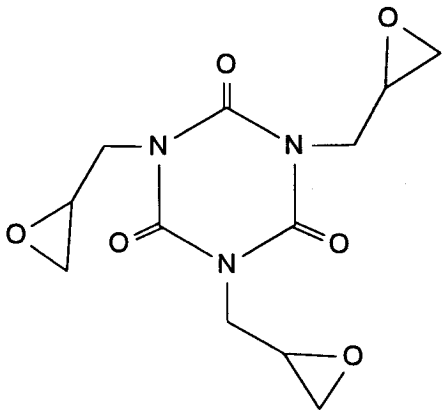
# TEROXIRONE

## NSC - 296934



**Chemical Name:**
1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1*H*,3*H*,5*H*)-trione, (α)-

**Other Names:**
Henkel's Compound; Triazinetrione triepoxide; α-Triglycodyl isocyanurate; α-TGI

**CAS Registry Number:** 2451-62-9

**Molecular Formula:** $C_{12}H_{15}N_3O_6$ **M.W.:** 297.3

**Approximate Solubility:** (mg/mL)

| | |
|---|---|
| Water | < 1 |
| 0.1 N HCl | < 1 |
| pH 4 buffer | 2.5 - 5 |
| pH 9 buffer | < 1 |
| 0.1 N NaOH | 1 - 2.5 |

| | |
|---|---|
| 10% EtOH | < 1 |
| 95% EtOH | < 1 |

**Stability:**

**Bulk:**
After heating at 60 °C for 30 days in the dark, the sample purity dropped from > 99% to 93 ± 1%. (HPLC)

**Solution:**
A solution in water decomposed 29% in 72 hours. Aqueous solutions are most stable at pH 6. When acetonitrile was substituted for water as the storage solvent, < 1% decomposition was observed through 72 hours (HPLC).

**High Performance Liquid Chromatography:**

| | |
|---|---|
| **Column:** | μBondapak $C_{18}$, 300 x 3.9mm i.d. |
| **Mobile Phase:** | $CH_3CN/H_2O$, 20/80, v/v |
| **Flow Rate:** | 1 mL/min |
| **Detection:** | UV at 205 nm |
| **Sample Preparation:** | 1.0 mg/mL in internal standard solution |
| **Internal Standard:** | 0.24 μL/mL acetophenone in $CH_3CN/H_2O$, 20/80,(v/v) |
| **Retention Volume:** | 6.4 mL (NSC-296934)<br>18.5 mL (I.S.) |